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APPENDIX C

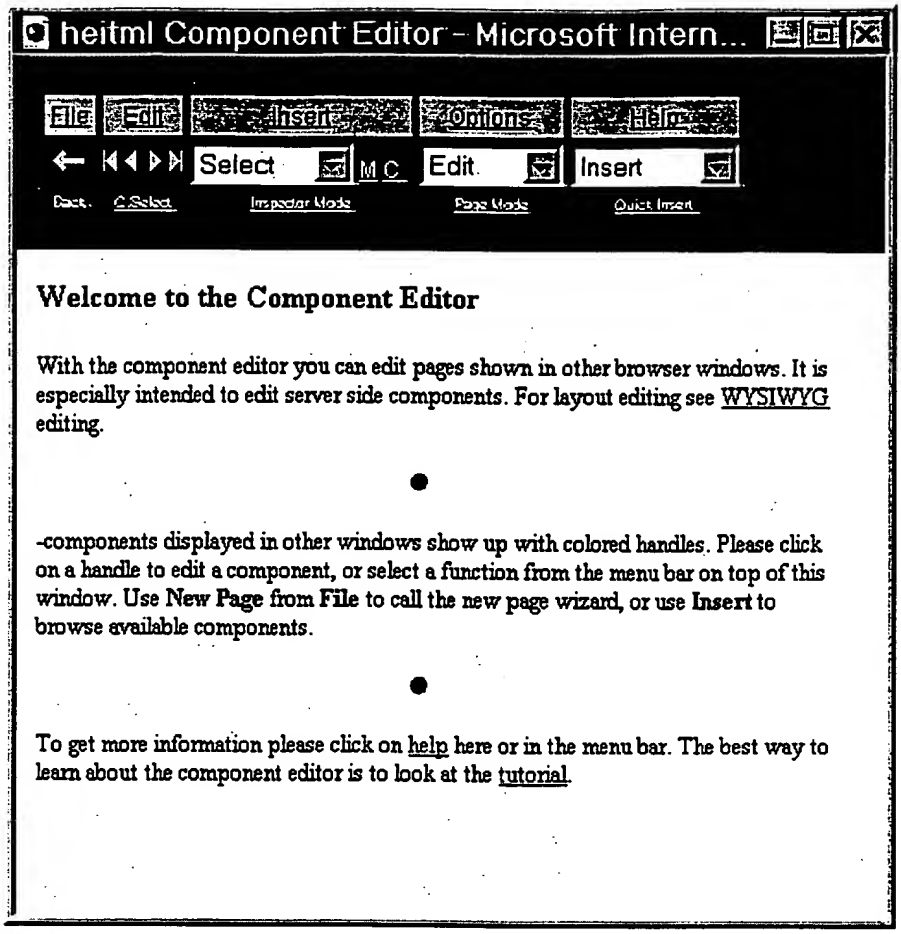


Fig. 3: Component Editor Window after Startup

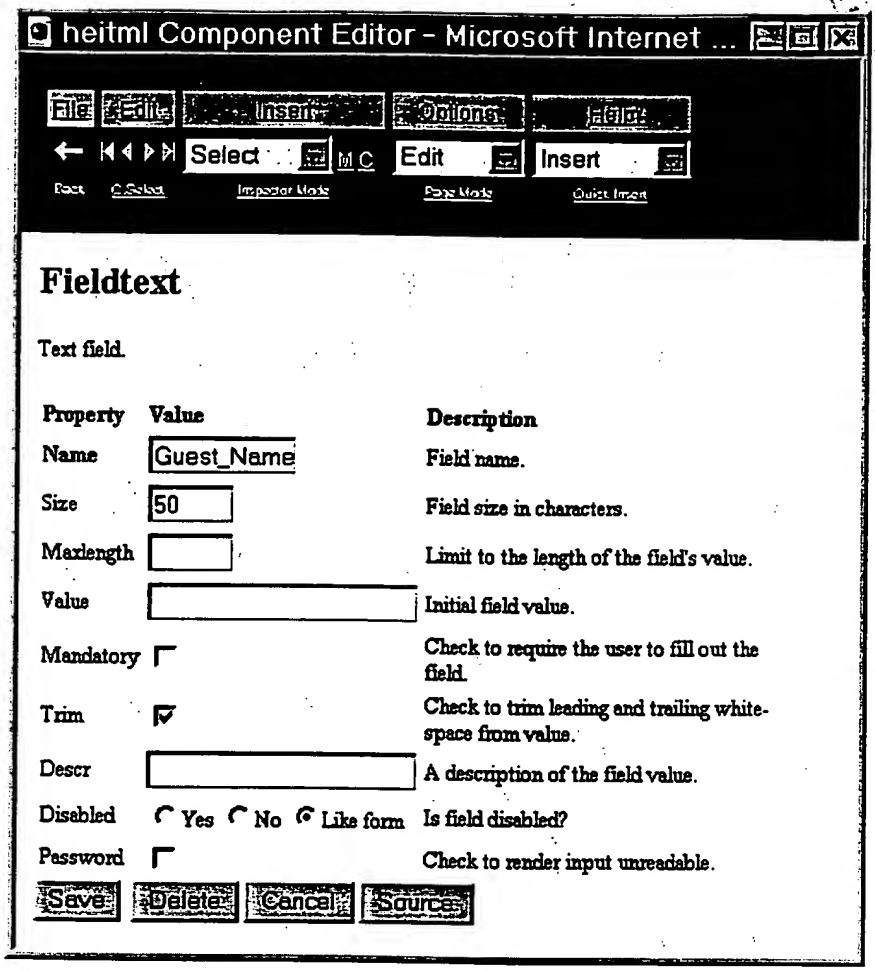


Fig 4: Component Editor Window displaying a Component Edit Page

```
<H1>Database Search & Edit Form</H1>
<P>This is the fill-in form used to create new entries, to search, modify, or delete records
<dbform id=se.dbform1 relation="guestbook" key="Guest_Name" method="post" >
  <table bgcolor="#90bb90" cellspacing=0 cellpadding=5 border=0 >
    <tr><td> Name</td>
        <td><dbfield name="Guest_Name" size=50 mandatory=false trim=true></td></tr>
    <tr> <td> E-Mail</td>
        <td><dbfield name="Email" size=50 mandatory=false trim=true></td></tr>
    <tr><td>Address</td><dbfield name="Address" size=60 mandatory=false trim=true></td></tr>
    <tr><td>Country</td><td><dbfield name="Country" size=60 mandatory=false trim=true></td></tr>
    <tr><td>Comment</td><td> <dbfield name="Comment" rows=5 cols=60></td></tr>
  </TABLE>
  <dbformbutton name="find" type="find" ></dbformbutton>
  <dbformbutton name="modify" type="modify"></dbformbutton>
  <dbformbutton name="delete" type="delete"></dbformbutton>
  <dbformbutton name="clear" type="clear" ></dbformbutton>
</dbform>
```

Fig.5: Page Source of Sample Page

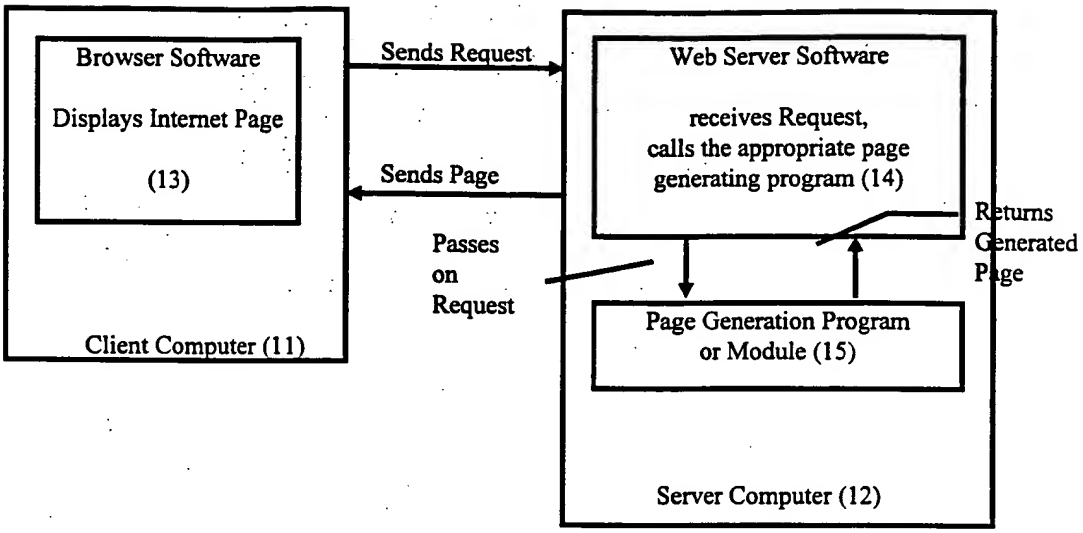


Fig. 6: State of the Art Model for Server Based Internet Applications

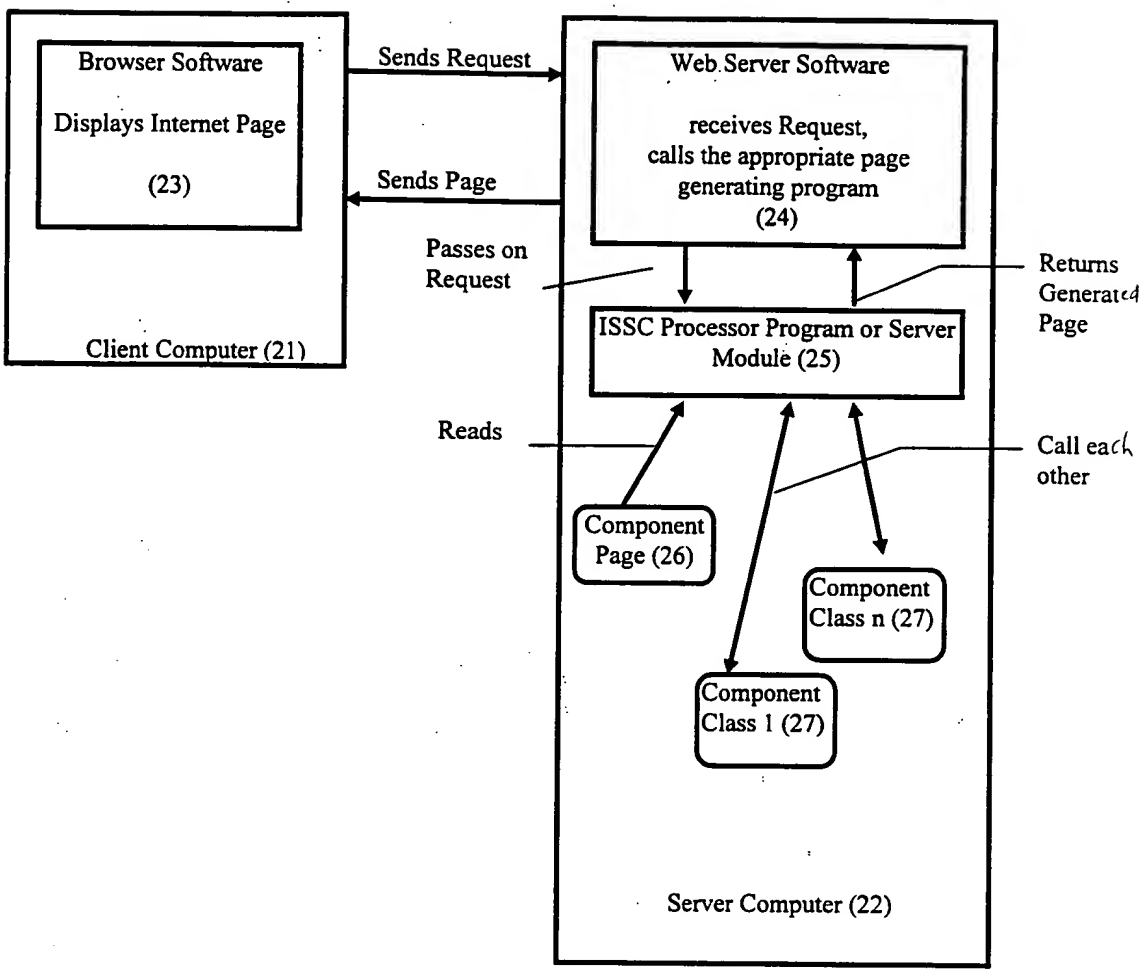


Fig. 7: Model for Server Based Internet Applications with ISSCs

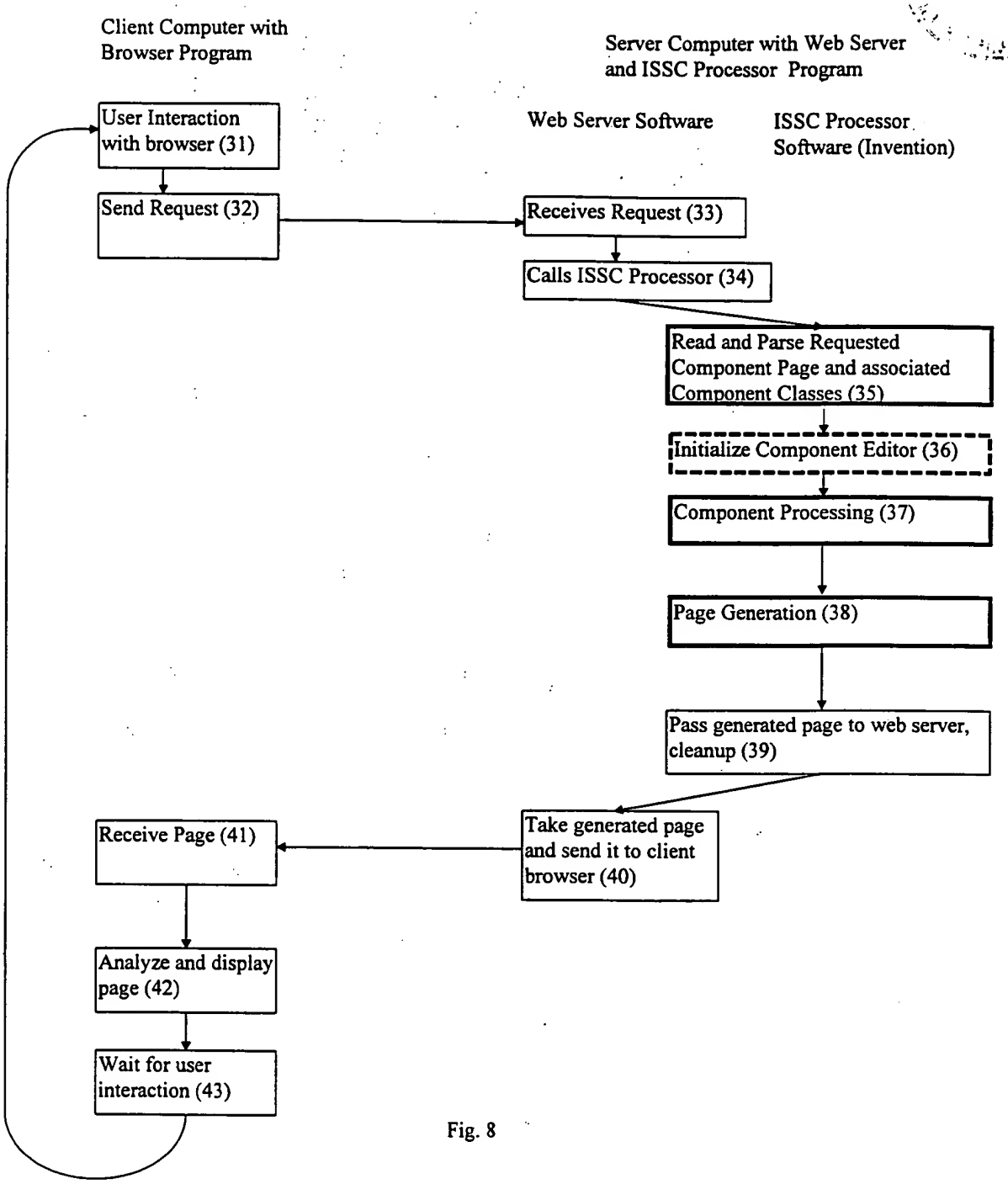

Client Computer with Browser Program
Server Computer with Web Server and ISSC Processor Program
Web Server Software
ISSC Processor Software (Invention)
User Interaction with browser (31)
Send Request (32)
Receives Request (33)
Calls ISSC Processor (34)
Read and Parse Requested Component Page and associated Component Classes (35)
Initialize Component Editor (36)
Component Processing (37)
Page Generation (38)
Pass generated page to web server, cleanup (39)
Take generated page and send it to client browser (40)
Receive Page (41)
Analyze and display page (42)
Wait for user interaction (43)

Fig. 8

Generation Algorithm

Parameter l is a cb-list

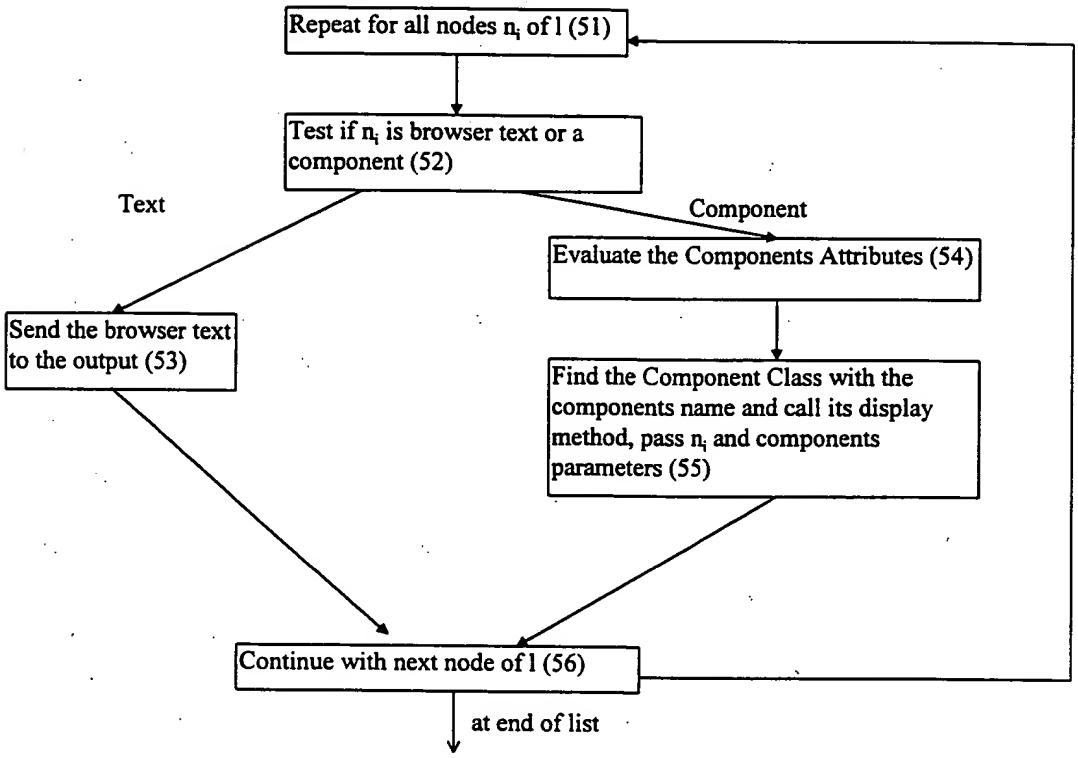


Fig. 9: Generation Algorithm

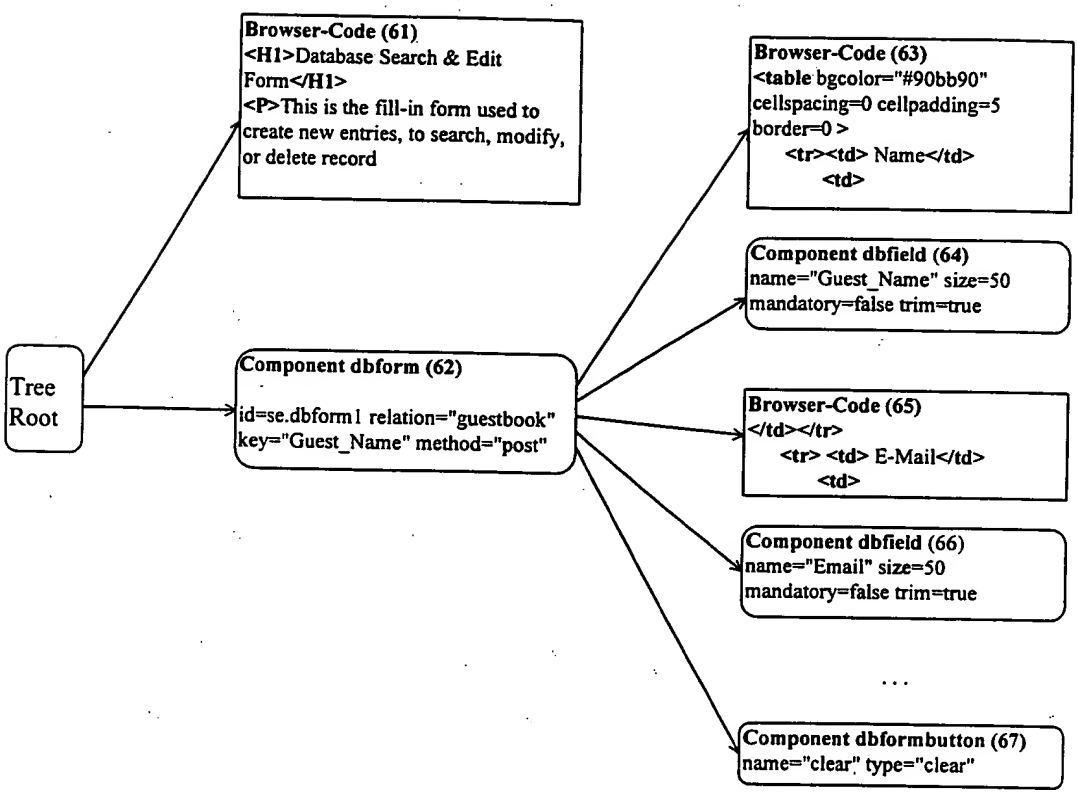


Fig. 10: Example Abstract Syntax Tree (AST)

Display Method of a Component Class

Parameters:

AST Node: n

Parameter Values given in the Tag marking the Component

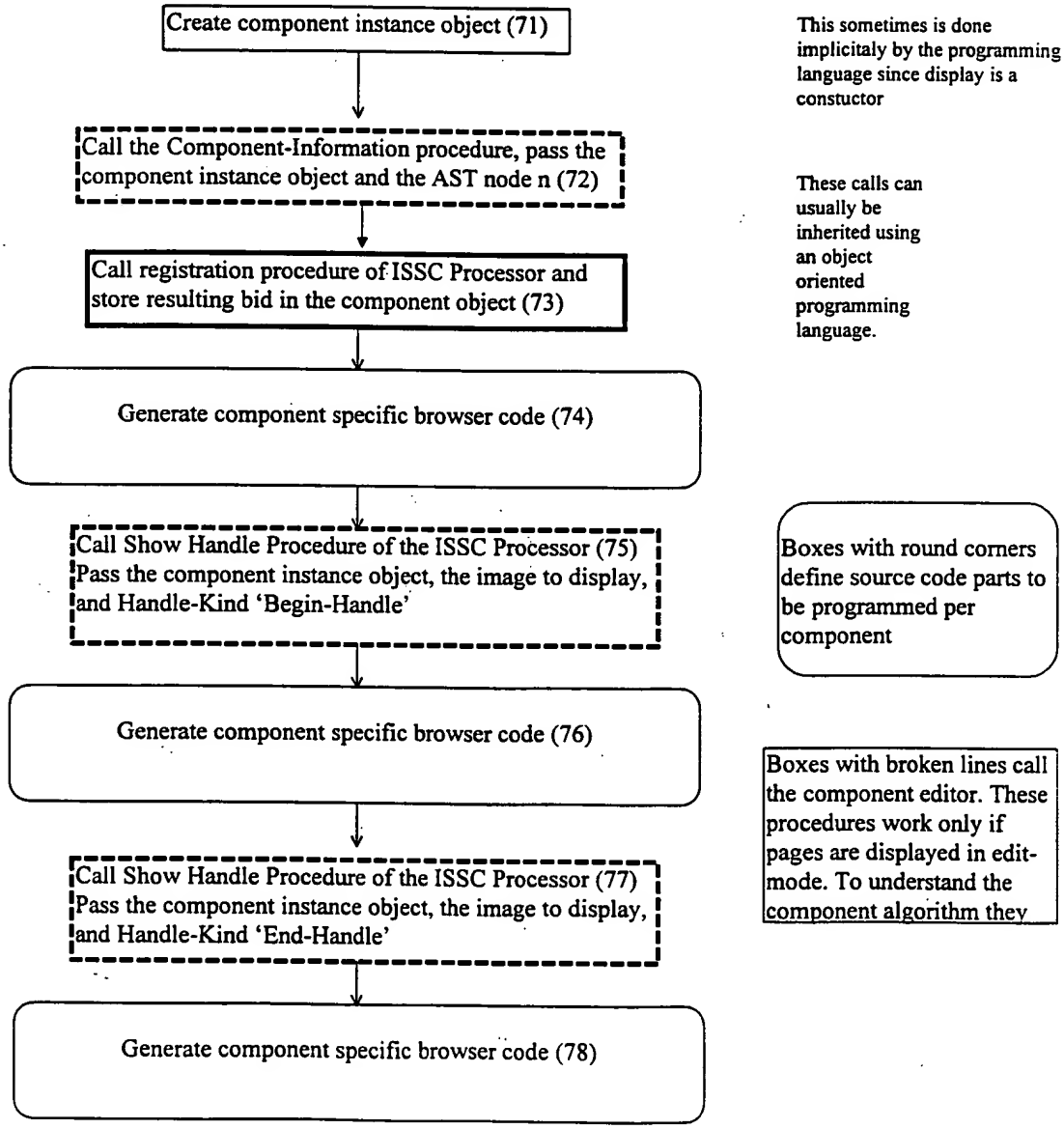


Fig.11: Display Method Algorithm Structure

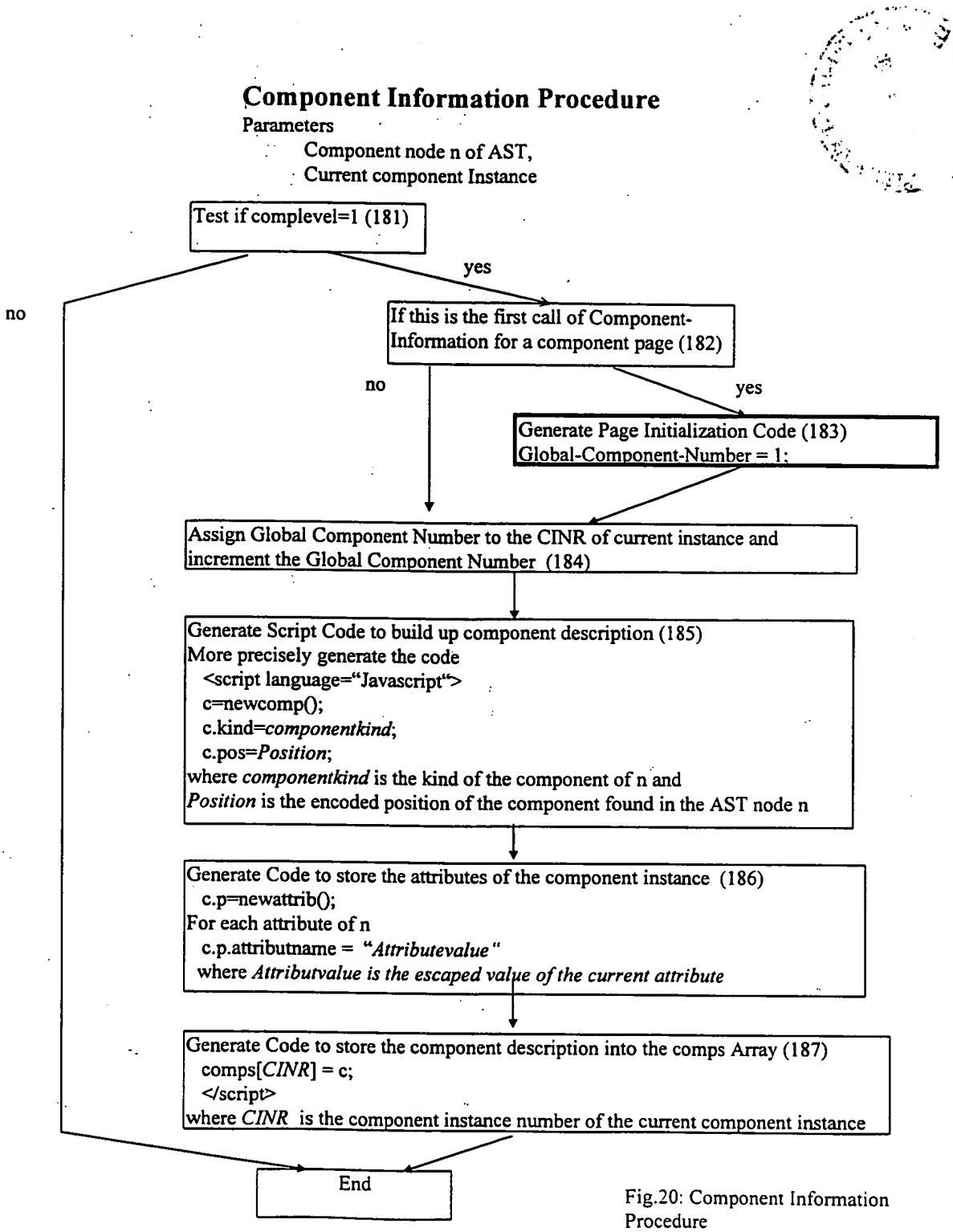
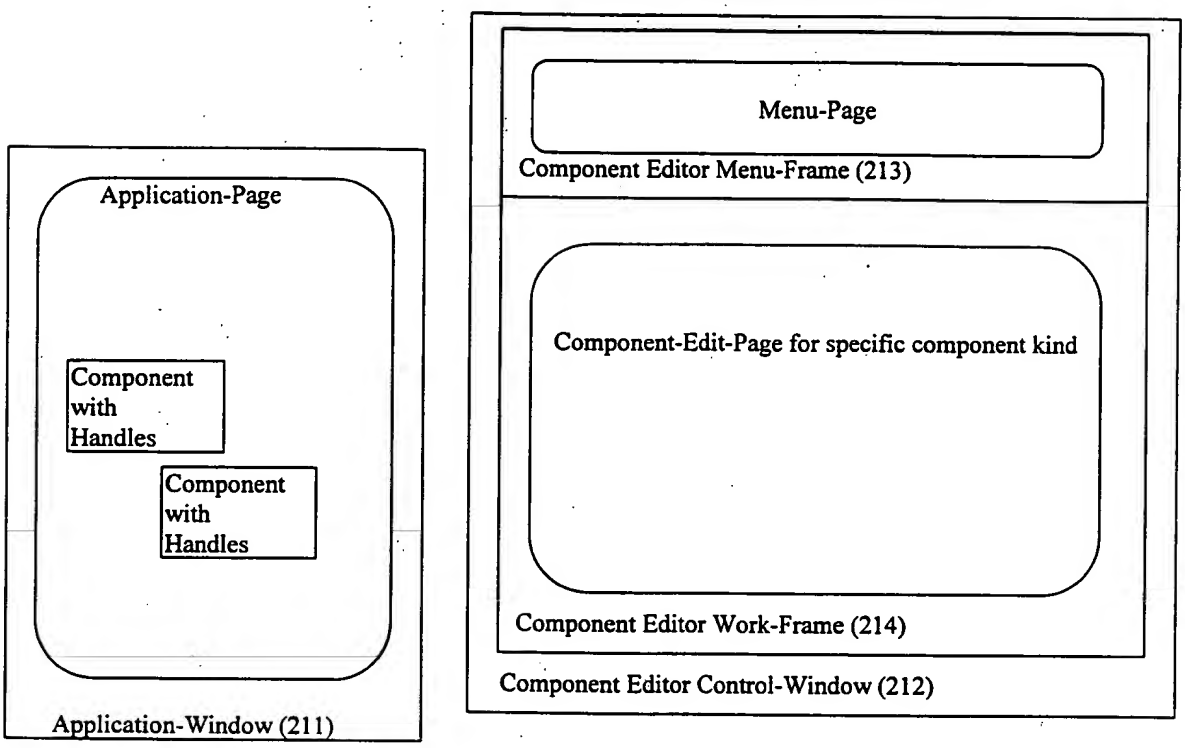


Fig.20: Component Information Procedure

Structure Component Editor Client Part



Fig,23: Structure Component Editor Client Part

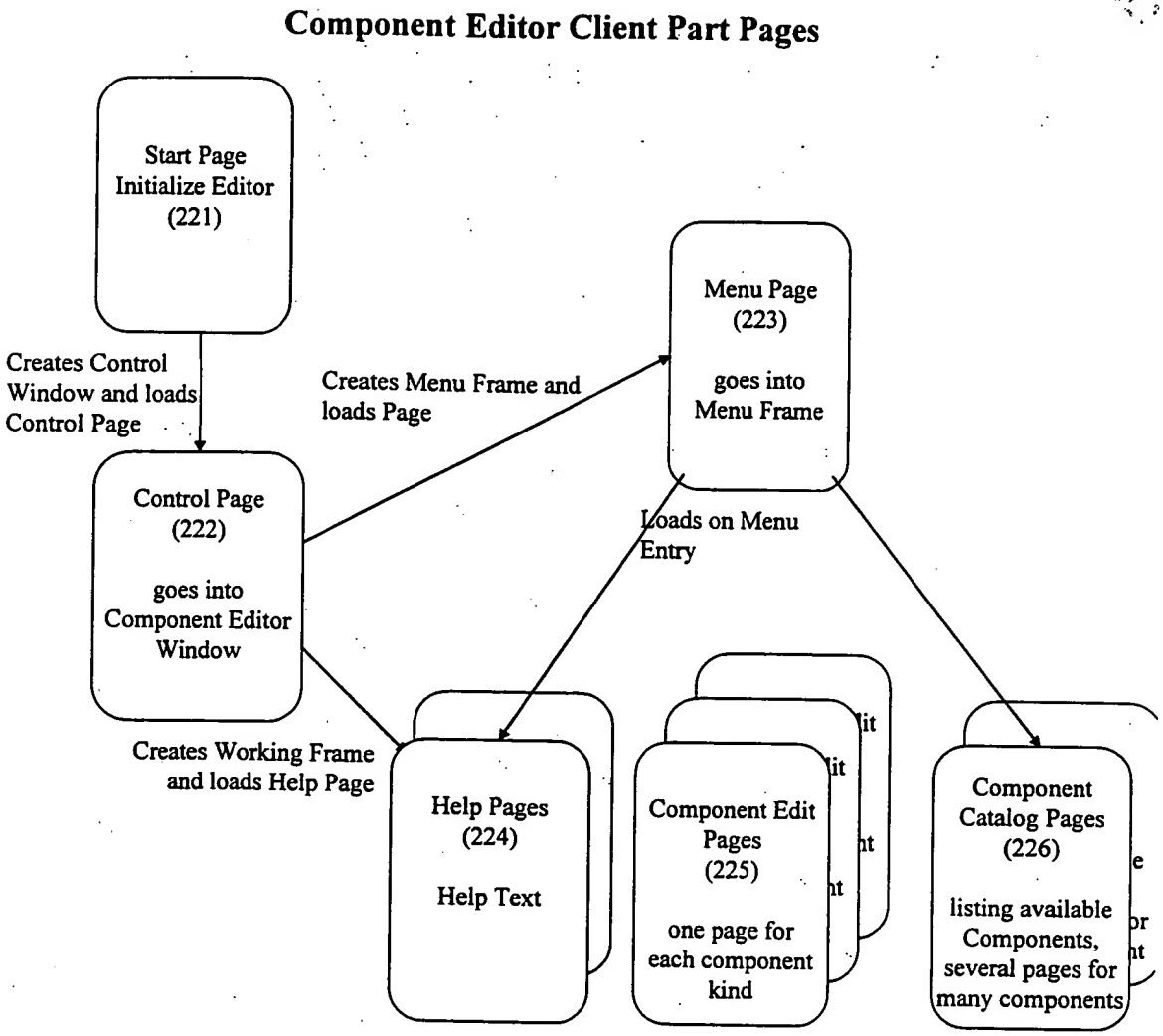


Fig.24: Component Editor Client Part Page Structure

Component Editor Start Page

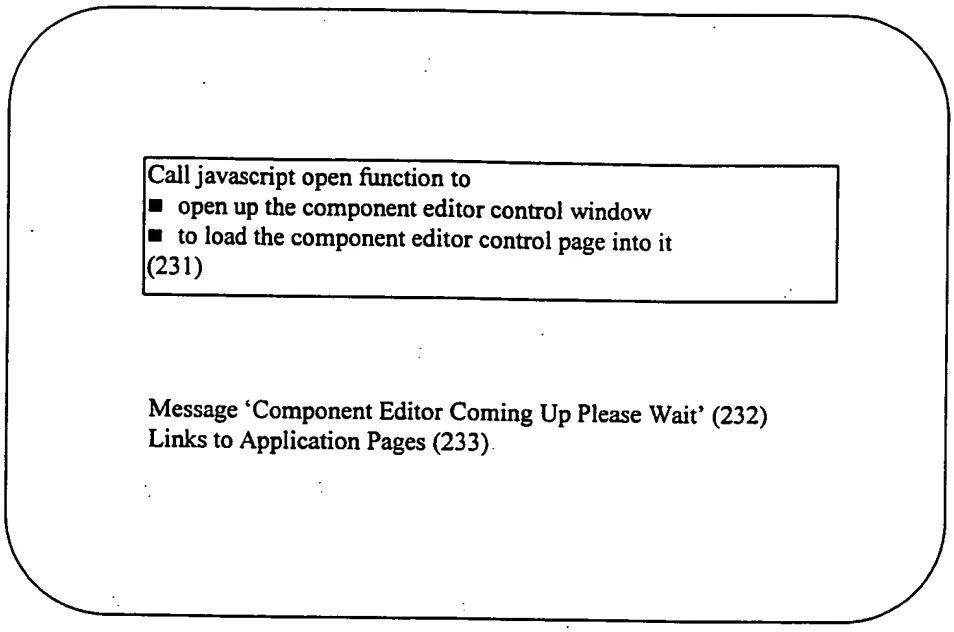


Fig. 25: Component Editor Start Page

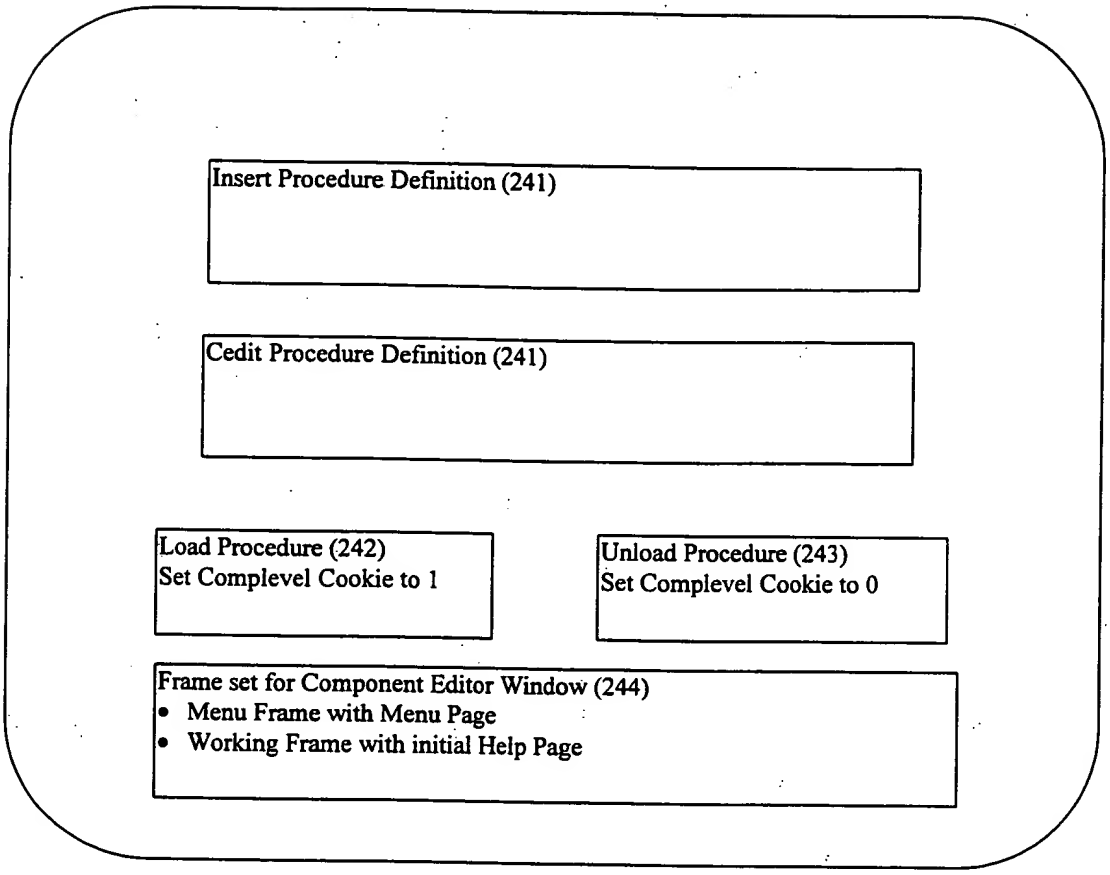


Fig. 26: Component Editor Control Page

cedit Procedure

Parameters

Window: w

Component Instance Number: cn

Handle Kind (Begin or End Handle): hk

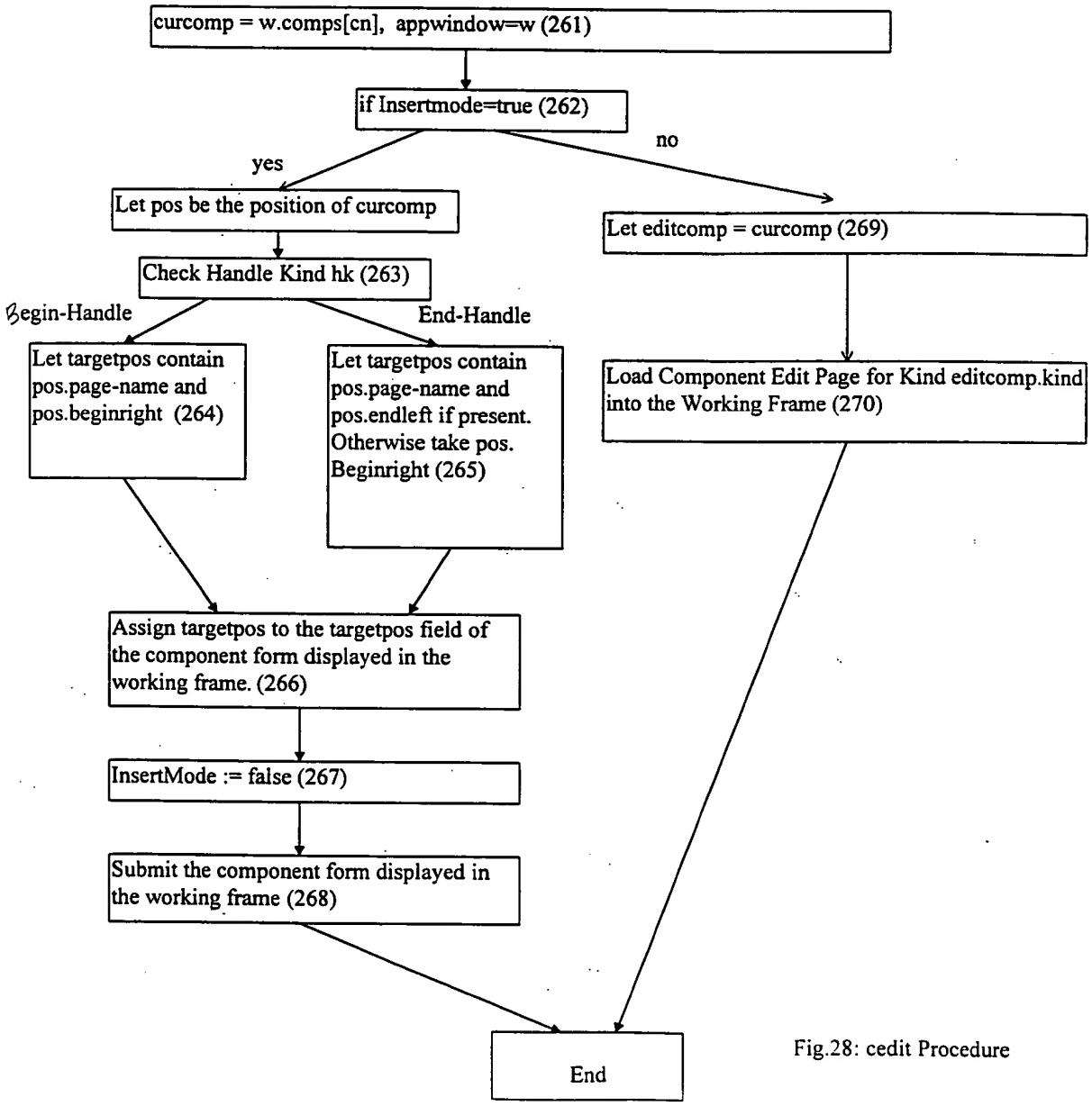


Fig.28: cedit Procedure

Component Edit Page

HTML Form called Component Edit Form (281)

- Form Fields one for each possible component attribute initially empty (282)
- Hidden Component-Kind Field containing Component Kind (283)
- Hidden Component Position Field initially empty (284)
- Hidden Target Position Field initially empty (285)
- Textarea for Component Content (286)
- Submit Button(287)
- Content Button(288)
- Delete Button (289)

Onload Procedure

- Copy attribute values from top.editcomp.p into attribute form fields (290)
  Copy position of editcomp.p into position field

Fig.29: Component Edit Page

Component Editor Server Part

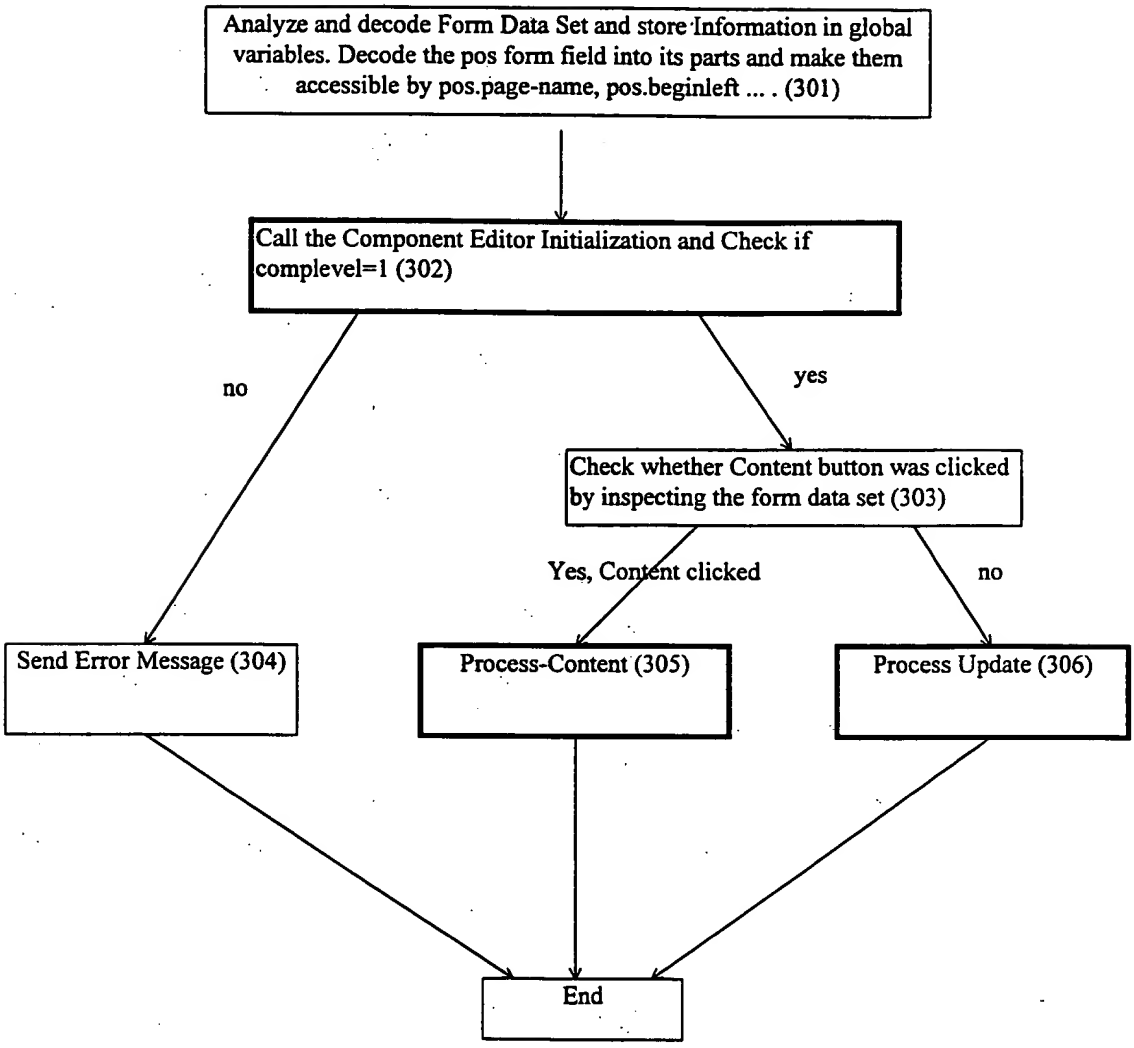


Fig.30: Component Editor Server Part

Process Update

Parameter:

Decoded Form Data Set of component form
Decoded position pos

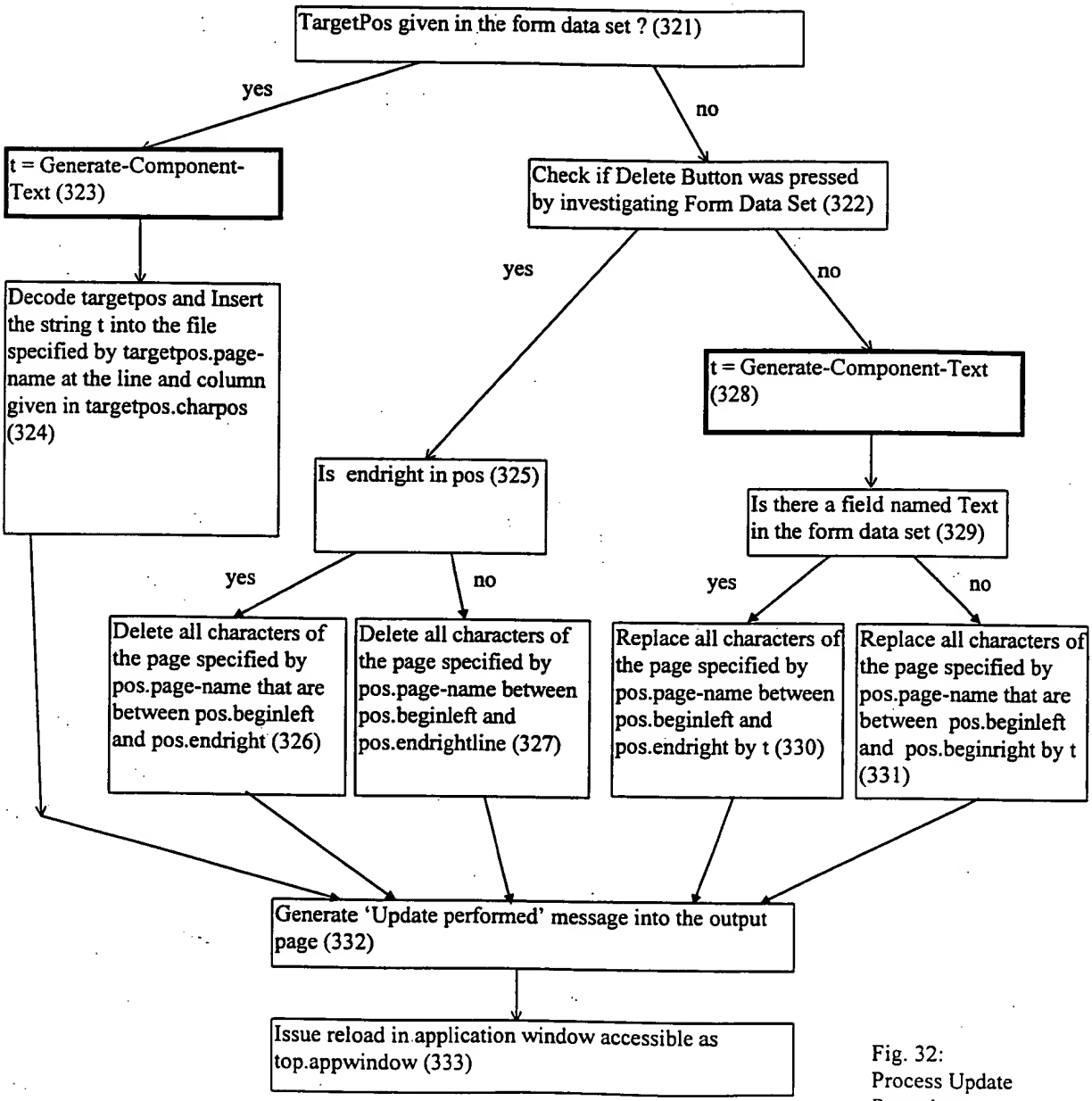


Fig. 32:
Process Update
Procedure